

TECHSPEC®

50.8mm Dia. x 50.8mm EFL, 800-1150nm Ultrafast-Enhanced Silver Coated, 50Å OAP Mirror



TECHSPEC® Ultrafast-Enhanced Silver Coated Off-Axis Parabolic (OAP) Mirrors

Stock #25-604 5 In Stock

☐ Other Coating Options

-

1

+

A\$953<sup>.60</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$953.60 each                |
| Qty 6-10       | A\$763.20 each                |
| Qty 11-25      | A\$715.20 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:

Off-Axis Parabolic Mirror

Physical & Mechanical Properties

|                                                                                                                                   |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 50.80                                                                                                                             | Diameter (mm):                   |
| <50 RMS                                                                                                                           | Surface Roughness (□):           |
| 50.80                                                                                                                             | Y Offset (mm):                   |
| Optical Properties                                                                                                                |                                  |
| 50.80                                                                                                                             | Effective Focal Length EFL (mm): |
| ±1                                                                                                                                | Focal Length Tolerance (%):      |
| 50.80                                                                                                                             | Radius of Curvature (mm):        |
| Ultrafast-Enhanced Silver (800 - 1150nm)                                                                                          | Coating:                         |
| Ultrafast-Enhanced Silver                                                                                                         | Coating Type:                    |
| R <sub>avg</sub> >99% @ 800 - 1150nm, 0°<br>R <sub>s</sub> >99% @ 800 - 1100nm, 45°<br>R <sub>p</sub> >98.5% @ ~850 - 1100nm, 45° | Coating Specification:           |
| 90                                                                                                                                | Off-Set Angle (°):               |
| 25.40                                                                                                                             | Parent Focal Length PFL (mm):    |
| λ/8                                                                                                                               | Surface Figure, RMS:             |
| 800 - 1150                                                                                                                        | Wavelength Range (nm):           |
| 80-50                                                                                                                             | Surface Quality:                 |
| Aluminum 6061-T6                                                                                                                  | Substrate:                       |
| λ/4                                                                                                                               | Reflected Wavefront, RMS:        |
| 0 ±30fs <sup>2</sup> @ 800 - 1100nm                                                                                               | GDD Specification:               |

|                      |                             |
|----------------------|-----------------------------|
| Threading & Mounting |                             |
| #47-112              | Compatible Mounting Plates: |

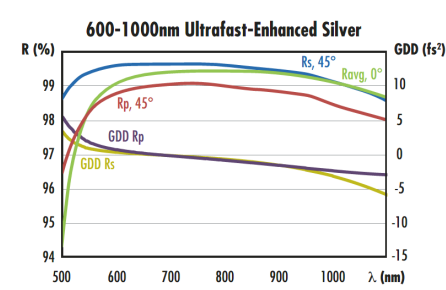
|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
| View                  | Certificate of Conformance: |

## Product Details

- Ultrafast-Enhanced Silver Coating for Ti:sapphire and Yb:doped Lasers
- Low Group Delay Dispersion
- <50ARMS Surface Roughness to Mnimize Scatter

TECHSPEC® Ultrafast-Enhanced Silver Coated Off-Axis Parabolic (OAP) Mirrors are used to collimate or focus incident light at a specified offset angle. These mirrors are coated with an ultrafast-enhanced silver coatings which provide a >99% reflectivity while maintaining a low group delay dispersion (GDD) of 0 ±20fs<sup>2</sup> at their design wavelength range. The off-axis design of these mirrors separates the focal point from the beam path, allowing for more interactive space around the focal point without disrupting the incident beam. TECHSPEC Ultrafast-Enhanced Silver Coated OAP Mirrors are ideal for focusing laser light from low-to-medium power ultrafast lasers, including Ti:sapphire and Yb:doped fiber lasers, while minimizing the temporal spreading of the ultrafast pulses. Mounting plates with holes perpendicular to the optical axis are available for mounting these mirrors into benchtop systems.

## Technical Information



600-1000nm Ultrafast-Enhanced Silver

# Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).